

# U.S. EPA REGION IV

## SDMS

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**Burl Maupin - RE: SMOKEY MOUNTAIN SMELTERS/KNOX COUNTY, TENNESSEE 37920 TN DIVISION OF SUPERFUND 061**

**From:** Burl Maupin  
**To:** carr.lofton@epa.gov  
**Date:** 1/7/02 3:14PM  
**Subject:** RE: SMOKEY MOUNTAIN SMELTERS/KNOX COUNTY, TENNESSEE 37920/TN  
DIVISION OF SUPERFUND SITE # 47559/EPA ID # TN0002318277

**RE: SMOKEY MOUNTAIN SMELTERS**

The Tennessee Division of Superfund is committed to conducting an Extended Site Investigation at the referenced Site during the fiscal year 01-02. Lofton Carr, USEPA, and Burl Maupin, TDSF, conducted an on-site investigation at this facility on December 12, 2001.

Concern for the potential release of hazardous substances at the site is due to the nature of the former manufacturing operations (secondary aluminum smelting; agricultural chemical manufacturing), past environmental violations, and unknowns. It is believed the property operated prior to 1979 as an agricultural chemical manufacturing facility, which may have used settling ponds in its manufacturing operations. These settling ponds are now believed to be partially buried with secondary aluminum smelting wastes. Secondary aluminum smelting is believed to have occurred from 1979 to 1994. Much of the waste dross, slag, and baghouse dust was dumped on-site, and some of this may have been buried. Large continuous gray-colored waste piles totaling an estimated 45,000 cubic yards covering three acres at a depth of 10 feet have been observed.

Based on analytical results of the Site Investigation, wastes containing hazardous substances related to agricultural chemical and secondary aluminum smelting operations are present on the surface at the Site. Large quantities of all substances detected in wastes may have been managed and disposed of at the Site for many years, and some may be buried. Some surface waste samples indicated pesticides and metals contamination at levels which may be RCRA-characteristically-toxic. Buried wastes were not investigated.

Additional investigatory efforts are required to determine the groundwater quality and type, depth, and quantity of subsurface hazardous substances at this Site. TDSF recommends that 15-20 samples from trenches dug into waste piles and the installation of 4 monitoring wells are necessary for an adequate investigation at this Site, and we request your approval.

Please review the attached list of proposed samples, sketch showing proposed soil and waste sample locations, and sketch showing proposed surface water pathway sample locations, and we can discuss these proposals at your convenience. The sketches are Harvard Graphics files (ch3).

This communication is also being faxed.

**CC:** Hawkins, Dan



10598151

**LIST OF SURFACE WATER SAMPLES, CODES, TYPES, and LOCATIONS,  
SMOKEY MOUNTAIN SMELTERS - EXTENDED SITE INVESTIGATION - JANUARY 2002**

SAMPLE NUMBER/ID	SAMPLE TYPE	LOCATION/JUSTIFICATION
1	SMS-SW-01	Water Lagoon Branch upstream of Lagoon at property boundary
2	SMS-SD-01	Sediment Lagoon Branch upstream of Lagoon at property boundary
3	SMS-SW-02	Water Lagoon
4	SMS-SD-02	Sediment Lagoon
5	SMS-SW-03	Water Railroad Branch at property boundary
6	SMS-SD-03	Sediment Railroad Branch at property boundary
7	SMS-SW-04	Water SMS Stream (Confluence of Lagoon and Railroad Branches prior to Leachate)
8	SMS-SD-04	Sediment SMS Stream (Confluence of Lagoon and Railroad Branches prior to Leachate)
9	SMS-SW-05	Water Leachate at Southernmost Waste Pile
10	SMS-SD-05	Sediment Leachate at Southernmost Waste Pile
11	SMS-SW-06	Water SMS Stream (containing Lagoon and Railroad Branches and Leachate)
12	SMS-SD-06	Sediment SMS Stream (containing Lagoon and Railroad Branches and Leachate)
13	SMS-SW-07	Water North Ditch
14	SMS-SD-07	Sediment North Ditch
15	SMS-SW-08	Water SMS Stream after North Ditch
16	SMS-SD-08	Sediment SMS Stream after North Ditch
17	SMS-SW-09	Water South Ditch
18	SMS-SD-09	Sediment South Ditch
19	SMS-SW-10	Water SMS Stream after South Ditch
20	SMS-SD-10	Sediment SMS Stream after South Ditch
21	SMS-SW-11	Water East East Branch of Flenniken Branch downstream of railroad tracks
22	SMS-SD-11	Sediment East East Branch of Flenniken Branch downstream of railroad tracks
23	SMS-SW-12	Water Confluence of East East Branch of Flenniken Branch and SMS Stream
24	SMS-SD-12	Sediment Confluence of East East Branch of Flenniken Branch and SMS Stream
25	SMS-SW-13	Water Pipe
26	SMS-SD-13	Sediment Pipe
27	SMS-SW-14	SWRO from Road Entering Witherspoon Landfill
28	SMS-SD-14	Sediment SWRO from Road Entering Witherspoon Landfill
29	SMS-SW-15	Water East East Branch of Flenniken Branch after SWRO from Road Entering Witherspoon Landfill
30	SMS-SD-15	Sediment East East Branch of Flenniken Branch after SWRO from Road Entering Witherspoon Landfill
31	SMS-SW-16	Water Outlet of Partially Buried Corrugated Culvert
32	SMS-SD-16	Sediment Outlet of Partially Buried Corrugated Culvert
33	SMS-SW-17	Water SWRO from North Side of Railroad Tracks
34	SMS-SD-17	Sediment SWRO from North Side of Railroad Tracks
35	SMS-SW-18	Water SWRO from Screen Arts Site
36	SMS-SD-18	Sediment SWRO from Screen Arts Site
37	SMS-SW-19	Water East East Branch of Flenniken Branch after SWRO from Landfill, Tracks, and Screen Arts
38	SMS-SD-19	Sediment East East Branch of Flenniken Branch after SWRO from Landfill, Tracks, and Screen Arts
39	SMS-SW-20	Water North Fork of East Fork Flenniken Branch
40	SMS-SD-20	Sediment North Fork of East Fork Flenniken Branch
41	SMS-SW-21	Water East Fork Flenniken Branch
42	SMS-SD-21	Sediment East Fork Flenniken Branch
43	SMS-SW-22	Water SWRO from Mobile Homes
44	SMS-SD-22	Sediment SWRO from Mobile Homes
45	SMS-SW-23	Water East Fork Flenniken Branch after SWRO from Mobile Homes
46	SMS-SD-23	Sediment East Fork Flenniken Branch after SWRO from Mobile Homes
47	SMS-SW-24	Water Spring at 2306 Maryville Pike
48	SMS-SD-24	Sediment Spring at 2306 Maryville Pike
49	SMS-SW-25	Water East Fork Flenniken Branch after Spring at 2306 Maryville Pike
50	SMS-SD-25	Sediment East Fork Flenniken Branch after Spring at 2306 Maryville Pike
51	SMS-SW-26	Water SWRO from Witherspoon Landfill and Mayo Seed Company
52	SMS-SD-26	Sediment SWRO from Witherspoon Landfill and Mayo Seed Company

control?

control?

Don't need  
Have upstream samplewill pick this up  
w/08, 05 + 07

control?

could cut use 8 or 10 only

control?

Cut these out + isolate  
LANDFILL + Screen Arts  
w/ controls.you know  
what is  
upstream  
10 + 12  
And  
19 tells you  
what's D.S.

control?

control?

control

will pick up w/25



✓ 52	SMS-SD-26	Sediment	SWRO from Witherspoon Landfill and Mayo Seed Company
✓ 53	SMS-SW-27	Water	Pool in East Fork Flenniken Branch after SWRO from Witherspoon Landfill and Mayo Seed Company
✓ 54	SMS-SD-27	Sediment	Pool in East Fork Flenniken Branch after SWRO from Witherspoon Landfill and Mayo Seed Company
✓ 55	SMS-SW-28	Water	Spring at 2401 Maryville Pike
✓ 56	SMS-SD-28	Sediment	Spring at 2401 Maryville Pike
✓ 57	SMS-SW-29	Water	East Fork Flenniken Branch after Spring at 2401 Maryville Pike
✓ 58	SMS-SD-29	Sediment	East Fork Flenniken Branch after Spring at 2401 Maryville Pike
✓ 59	SMS-SW-30	Water	Flenniken Branch
✓ 60	SMS-SD-30	Sediment	Flenniken Branch
61	SMS-SW-31	Water	Flenniken Branch after confluence with East Fork Flenniken Branch
62	SMS-SD-31	Sediment	Flenniken Branch after confluence with East Fork Flenniken Branch
63	SMS-SW-32	Water	Flenniken Branch Embayment of Fort Loudoun Lake (Tennessee River)
64	SMS-SD-32	Sediment	Flenniken Branch Embayment of Fort Loudoun Lake (Tennessee River)
65	SMS-SW-33	Water	Sovier Heights Baptist Church Tributary above maximum pool level of embayment
66	SMS-SD-33	Sediment	Sovier Heights Baptist Church Tributary above maximum pool level of embayment

Could  
Remove  
not Real  
Fishery  
move to  
embay  
ment

Control

#### LIST OF OUTSIDE WASTE SAMPLES, CORES, TYPES, and LOCATIONS.

#### SMOKEY MOUNTAIN SMELTERS - EXTENDED SITE INVESTIGATION - JANUARY 2002

SAMPLE NUMBER/ID	SAMPLE TYPE	LOCATION/JUSTIFICATION
67	SMS-WA-01	Waste
68	SMS-WA-02	Waste
69	SMS-WA-03	Waste
70	SMS-WA-04	Waste
71	SMS-WA-05	Waste

grab samples, repeat for each of 8 locations in trenches dug with a backhoe, maximum number of samples = 40

#### LIST OF INSIDE WASTE SAMPLES, CORES, TYPES, and LOCATIONS.

#### SMOKEY MOUNTAIN SMELTERS - EXTENDED SITE INVESTIGATION - JANUARY 2002

SAMPLE NUMBER/ID	SAMPLE TYPE	LOCATION/JUSTIFICATION
107	SMS-WA-101	Waste
108	SMS-WA-102	Waste
109	SMS-WA-103	Waste
110	SMS-WA-104	Waste
111	SMS-WA-105	Waste
112	SMS-WA-106	Waste

#### LIST OF CONTAINED WASTE SAMPLES, CORES, TYPES, and LOCATIONS.

#### SMOKEY MOUNTAIN SMELTERS - EXTENDED SITE INVESTIGATION - JANUARY 2002

SAMPLE NUMBER/ID	SAMPLE TYPE	LOCATION/JUSTIFICATION
113	SMS-WA-107	Waste
114	SMS-WA-108	Waste
115	SMS-WA-109	Waste

#### LIST OF SOIL SAMPLES, CODES, TYPES, and LOCATIONS.

#### SMOKEY MOUNTAIN SMELTERS - EXTENDED SITE INVESTIGATION - JANUARY 2002

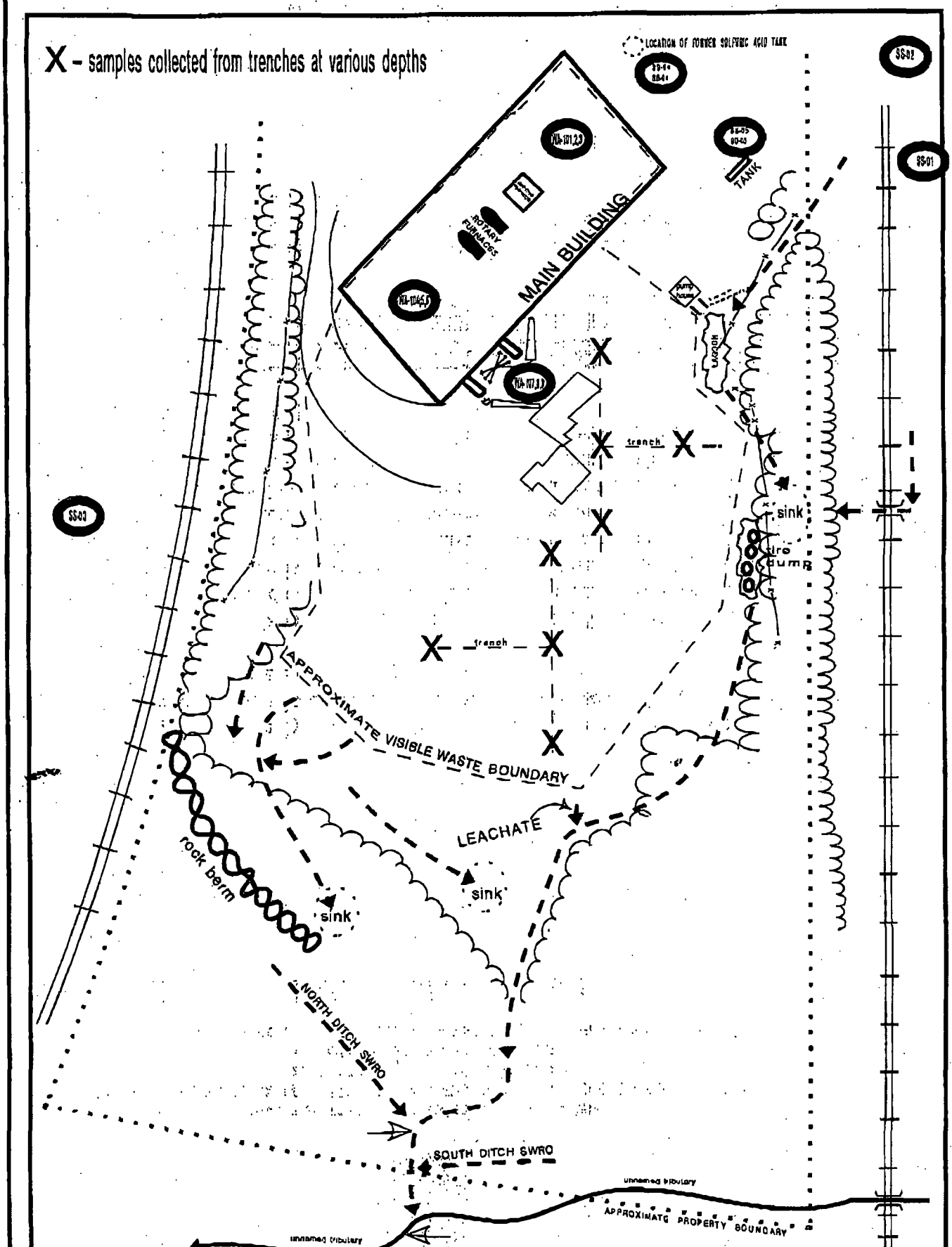
SAMPLE NUMBER/ID	SAMPLE TYPE	LOCATION/JUSTIFICATION
116	SMS-SS-01	Surface Soil
117	SMS-SS-02	Surface Soil
118	SMS-SS-03	Surface Soil
119	SMS-SS-04	Surface Soil
120	SMS-SB-04	Subsurface Soil
121	SMS-SS-05	Surface Soil
122	SMS-SB-05	Subsurface Soil

#### LIST OF GROUNDWATER SAMPLES, CODES, TYPES, and LOCATIONS.

#### SMOKEY MOUNTAIN SMELTERS - EXTENDED SITE INVESTIGATION - JANUARY 2002

SAMPLE NUMBER/ID	SAMPLE TYPE	LOCATION/JUSTIFICATION
123	SMS-MW-01	Groundwater
124	SMS-MW-02	Groundwater
125	SMS-MW-03	Groundwater
126	SMS-MW-04	Groundwater
127	SMS-PW-05	Groundwater
128	SMS-PW-06	Groundwater

**EXTENDED SITE INVESTIGATION**  
**Site Sketch / Soil and Waste Sample Locations**  
**SMOKEY MOUNTAIN SMELTERS**  
**Knox County, TN SITE # 47-559**



# PROPOSED SURFACE WATER PATHWAY SAMPLE LOCATIONS

JANUARY 2002 EXTENDED SITE INVESTIGATION  
SMOKEY MOUNTAIN SMELTERS TDSF SITE # 47-559  
1508 MARYVILLE PIKE KNOX COUNTY, TN 37920

